



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q94181

Takeyuki SUGIURA

Appln. No.: 10/573,969

Group Art Unit: Not yet assigned

Confirmation No.: Not yet assigned

Examiner: Not yet assigned

Filed: March 30, 2006

For: TETRAHYDROFOLATE SYNTHETASE GENE

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, along with a copy of the corresponding Communication from a Foreign Patent Office, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

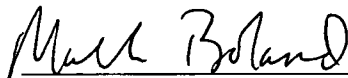
U.S. Appln. No.: 10/573,969

on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



Mark Boland
Registration No. 32,197

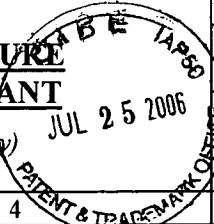
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Date: July 25, 2006

Substitute for Form 1449 A & B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			<i>Complete if Known</i>		
			Application Number	10/573,969	
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			First Named Inventor	Takeyuki SUGIURA	
			Art Unit	Not yet assigned	
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			Attorney Docket Number	Q94181	
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US			
		US			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
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/IC/		WO	02/083873	A2	10/24/2002		English

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
/IC/		Dean W. Hum et al., "Primary Structure of a Human Trifunctional Enzyme" (1988), The Journal of Biological Chemistry, Vol. 263, No. 31, pp. 15946-15950	
/IC/		Chuck Staben et al., "Nucleotide Sequence of the Saccharomyces cerevisiae ADE3 Gene Encoding C ₁ -Tetrahydrofolate Synthase*" (1986), The Journal of Biological Chemistry, Vol. 261, No. 10, pp. 4629-4637	
/IC/		Karen W. Shannon et al., "Purification and Characterization of a Mitochondrial Isozyme of C ₁ -Tetrahydrofolate Synthase from Saccharomyces cerevisiae*" (1986), The Journal of Biological Chemistry, Inc., Vol. 261, No. 26, pp. 12266-12271	
/IC/		Anice E. Thigpen et al., "Rat C ₁ -Tetrahydrofolate Synthase" (1990), The Journal of Biological Chemistry, Vol. 265, No. 14, pp. 7907-7913	
/IC/		Inderjit K. Dev et al., "A Complex of N ⁵ ,N ¹⁰ -Methylenetetrahydrofolate Dehydrogenase and N ⁵ ,N ¹⁰ -Methylenetetrahydrofolate Cyclohydrolase in Escherichia coli" (1978), The Journal of Biological Chemistry, Vol. 253, No. 12, pp. 4245-4253	
/IC/		S.K. Raj et al., "Reverse Transcription-Polymerase Chain Reaction (RT-PCR) for Direct Detection of Cucumber Mosaic Virus (CMV) in Gladiolus" (1998), Biochemistry and Molecular Biology International, pp. 89-95	

Examiner Signature	/Iqbal Chowdhury/ (06/21/2007)	Date Considered	
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/IC/		Michael A. Frohman et al., "Rapid production of full-length cDNAs from rare transcripts: Amplification using a single gene-specific oligonucleotide primer" (1988), Proc. Natl. Acad. Sci., Vol. 85, pp. 8998-9002	
/IC/		F. Sanger et al., "DNA sequencing with chain-terminating inhibitors" (1977), Proc. Natl. Acad. Sci., Vol. 74, No. 12, pp. 5463-5467	
/IC/		Allan M. Maxam et al., "Sequencing End-Labeled DNA with Base-Specific Chemical Cleavages" (1977), Methods in Enzymology, Vol. 65, pp. 499-560	
/IC/		Manual G. Claros et al., "Computational method to predict mitochondrially imported proteins and their targeting sequences" (1996), Eur. J. Biochem., Vol. 241, pp. 779-786	
/IC/		Paul J. Kim et al., "Survivin and molecular pathogenesis of colorectal cancer" (2003), The Lancet, Vol. 362, pp. 205-209	
/IC/		Rachel H. Giles et al., "Caught up in a Wnt Storm: Wnt signaling in cancer" (2003), Biochimica et Biophysica Acta 1653, pp. 1-24	

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/IC/		Tong-Chuan He et al., "Identification of c-MYC as a Target of the APC Pathway" (1998), Science, Vol. 281, pp. 1509-1512	
/IC/		David L. Levens, "Reconstructing MYC" (2003), Genes & Development, pp. 1071-1077	
/IC/		Timothy A. Garrow et al., "Cloning of Human cDNAs Encoding Mitochondrial and Cytosolic Serine Hydroxymethyltransferases and Chromosomal Localization" (1993), The Journal of Biological Chemistry, Vol. 268, No. 16, pp. 11910-11916	
/IC/		Mikhail A. Nikiforov et al., "A Functional Screen for Myc-Responsive Genes Reveals Serine Hydroxymethyltransferase, a Major Source of the One-Carbon Unit for Cell Metabolism" (2002), Vol. 22, No. 16, pp. 5793-5800	
/IC/		Sean V. Tavtigian et al., "Cloning of Mid-G ₁ Serum Response Genes and Identification of a Subset Regulated by Conditional myc Expression" (1994), Molecular Biology of the Cell, Vol. 5, pp. 375-388	
/IC/		Enrique Villar et al., "C ₁ -Tetrahydrofolate Synthase from Rabbit Liver" (1985), The Journal of Biological Chemistry, Vol. 260, No. 4, pp. 2245-2252	

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/IC/		Takeyuki Sugiura et al., "A novel mitochondrial C ₁ -tetrahydrofolate synthetase is upregulated in human colon adenocarcinoma" (2004), Biochemical and Biophysical Research Communications, Vol. 315, pp. 204-211	
/IC/		International Search Report dated November 16, 2004	

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